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TECH CENTER 1600/2900

RAW SEQUENCE LISTING

10/00,74527

DATE: 12/20/2001

PATENT APPLICATION:

US/10/007,452

TIME: 14:00:34

Input Set : A:\CL1709 US NA Seq Listing.txt  
Output Set: N:\CRF3\12202001\J007452.raw

5 <110> APPLICANT: Tomb, Jean-Francois  
 6 Bramucci, Michael G.  
 7 Cheng, Qiong  
 8 Kostichka, Kristy N.  
 11 <120> TITLE OF INVENTION: Rhodococcus Cloning and Expression Vectors  
 14 <130> FILE REFERENCE: CL1709 US NA  
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/007,452  
 C--> 17 <141> CURRENT FILING DATE: 2001-11-08  
 17 <150> PRIOR APPLICATION NUMBER: 60/254,868  
 18 <151> PRIOR FILING DATE: 2000-12-12  
 21 <160> NUMBER OF SEQ ID NOS: 30  
 24 <170> SOFTWARE: Microsoft Office 97  
 27 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 1140  
 31 <212> TYPE: DNA  
 33 <213> ORGANISM: Rhodococcus AN12  
 37 <400> SEQUENCE: 1

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FEB 12 2002

Technology Center 2100

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40	tccgataagc	gcggcatccg	gcacgaactg	cgacccaaac	ttcaacaat	caccacgtca	120										
42	gaaacatcta	acgcctgtgg	ccggccgatt	tctggcgtga	acgggtgtgac	cattgtcaac	180										
44	ggtccgaaag	gttctggatt	cggaggcctt	cgttcctgcg	gaaagggctg	gatctgcccc	240										
46	tgctgtgcgg	gaaaagtccg	tgcacatcg	gcagacgaaa	tttctcaagt	tgttgcgtcat	300										
48	caactcggga	ctggatctgt	tgcgatgggt	acgatgacca	tgcgccatac	agctggtcag	360										
50	cggtccacg	acctatggac	tggactttcg	gcagcctgga	aagctgcgac	caacggcgt	420										
52	cgttggcgt	cggAACGTGA	aatgtacggc	tgcgacggat	acgtgcgcgc	tgttggaaatc	480										
54	actcacggaa	aaaacggctg	gcacgtccac	gttcacgcgc	tactcatgtt	cagttgtgac	540										
56	gtgagtgaga	acatccctcg	atccttctcg	gatgcgtatgt	tcgatcggtg	gacttccaaa	600										
58	ctcgatctc	tgggatttgc	tgcgccacta	cgtaattcgg	gtgggtctcg	tgtacgaaag	660										
60	atcggcgtg	aagctgatca	agttctcg	gcgtatctga	cgaaaattgc	atctggcg	720										
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93	Val	Leu	Val	Ser	Ser	Asp	Lys	Arg	Gly	Ile	Arg	His	Glu	Leu	Arg	Pro	
94							20					25				30	
97	Lys	Leu	Gln	Gln	Ile	Thr	Thr	Ser	Glu	Thr	Phe	Asn	Ala	Cys	Gly	Arg	
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/007,452

DATE: 12/20/2001  
TIME: 14:00:34

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Output Set: N:\CRF3\12202001\J007452.raw

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106 65 70 75 80  
109 Cys Cys Ala Gly Lys Val Gly Ala His Arg Ala Asp Glu Ile Ser Gln  
110 85 90 95  
113 Val Val Ala His Gln Leu Gly Thr Gly Ser Val Ala Met Val Thr Met  
114 100 105 110  
117 Thr Met Arg His Thr Ala Gly Gln Arg Leu His Asp Leu Trp Thr Gly  
118 115 120 125  
121 Leu Ser Ala Ala Trp Lys Ala Ala Thr Asn Gly Arg Arg Trp Arg Thr  
122 130 135 140  
125 Glu Arg Glu Met Tyr Gly Cys Asp Gly Tyr Val Arg Ala Val Glu Ile  
126 145 150 155 160  
129 Thr His Gly Lys Asn Gly Trp His Val His Val His Ala Leu Leu Met  
130 165 170 175  
133 Phe Ser Gly Asp Val Ser Glu Asn Ile Leu Glu Ser Phe Ser Asp Ala  
134 180 185 190  
137 Met Phe Asp Arg Trp Thr Ser Lys Leu Val Ser Leu Gly Phe Ala Ala  
138 195 200 205  
141 Pro Leu Arg Asn Ser Gly Gly Leu Asp Val Arg Lys Ile Gly Gly Glu  
142 210 215 220  
145 Ala Asp Gln Val Leu Ala Ala Tyr Leu Thr Lys Ile Ala Ser Gly Val  
146 225 230 235 240  
149 Gly Met Glu Val Gly Ser Gly Asp Gly Lys Ser Gly Arg His Gly Asn  
150 245 250 255  
153 Arg Ala Pro Trp Glu Ile Ala Val Asp Ala Val Gly Gly Asp Pro Gln  
154 260 265 270  
157 Ala Leu Glu Leu Trp Arg Glu Phe Glu Phe Gly Ser Met Gly Arg Arg  
158 275 280 285  
161 Ala Ile Ala Trp Ser Arg Gly Leu Arg Ala Arg Ala Gly Leu Gly Ala  
162 290 295 300  
165 Glu Leu Thr Asp Ala Gln Ile Val Glu Gln Glu Glu Ser Ala Pro Val  
166 305 310 315 320  
169 Met Val Ala Ile Ile Pro Ala Arg Ser Trp Met Met Ile Arg Thr Cys  
170 325 330 335  
173 Ala Pro Tyr Val Phe Gly Glu Ile Leu Gly Leu Val Glu Ala Gly Ala  
174 340 345 350  
177 Thr Trp Glu Asn Leu Arg Asp His Leu His Tyr Arg Leu Pro Ala Ala  
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182 370 375  
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187 <211> LENGTH: 891  
189 <212> TYPE: DNA  
191 <213> ORGANISM: Rhodococcus AN12  
195 <400> SEQUENCE: 3  
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198 atggtcgata tagccaaaga tgctgctcac tggctcattc aaggcaaaac ccgttccgga 120

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/007,452

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Output Set: N:\CRF3\12202001\J007452.raw

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202	gtcggagtcg	atcccacttc	cgtcttacta	gccccattcg	tccaccgacg	accggctgaa	240									
204	ccgaacatcg	agctcgggct	gaacgattt	gacaaaagtcc	tccgagtgtc	ccagttcgtc	300									
206	aaagcagaat	ctgaccgacg	aatcgagtgt	ttctggatc	gacgcataga	caaaatttcg	360									
208	ttgttctcg	cagcactacc	tctcatcctg	ctcgactgg	aagaatttcc	cggaatcatc	420									
210	gagggcgcac	aggatttcga	tgcaaccaac	ggtctgaaac	cagcagacag	atacgcaccc	480									
212	cgcacatcacat	cgcttgttcg	acagatcgct	gctcagtctg	ccaaaggcagg	catcagaatg	540									
214	ttgcttctgg	ctcaacgtgc	ggaagcttcc	atcggtggtg	gaaacgcgg	ctcgaacttc	600									
216	gcggtaaaa	tgactctccg	cgtagacgaa	cctgaatctg	tcaaaaatgt	gcaccccaac	660									
218	gcaacacctg	aagagtgcgc	actggtcgaa	ggattcgtcc	ctggtaagg	cttcttcgac	720									
220	caacccggac	tacggcgcca	aatgatccg	acggttcgcg	taggtgagta	ctcgacctac	780									
222	gcgagttacg	tcgaaaacgc	agacctcgcg	tacgaagccg	cactgaacat	cgaccgagca	840									
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243	Ala	Gln	Pro	Val	Met	Val	Asp	Ile	Ala	Lys	Asp	Ala	Ala	His	Trp	Leu
244					20				25					30		
247	Ile	Gln	Gly	Lys	Thr	Arg	Ser	Gly	Lys	Ser	Gln	Cys	Thr	Tyr	Asn	Leu
248					35				40					45		
251	Leu	Ala	Gln	Ala	Gly	Ser	Asn	Pro	Ala	Val	Arg	Val	Val	Gly	Val	Asp
252					50				55					60		
255	Pro	Thr	Ser	Val	Leu	Leu	Ala	Pro	Phe	Val	His	Arg	Arg	Pro	Ala	Glu
256	65				70				75					80		
259	Pro	Asn	Ile	Glu	Leu	Gly	Leu	Asn	Asp	Phe	Asp	Lys	Val	Leu	Arg	Val
260					85				90					95		
263	Leu	Gln	Phe	Val	Lys	Ala	Glu	Ser	Asp	Arg	Arg	Ile	Glu	Cys	Phe	Trp
264					100				105					110		
267	Asp	Arg	Arg	Ile	Asp	Lys	Ile	Ser	Leu	Phe	Ser	Pro	Ala	Leu	Pro	Leu
268					115				120					125		
271	Ile	Leu	Leu	Val	Leu	Glu	Glu	Phe	Pro	Gly	Ile	Ile	Glu	Gly	Ala	Gln
272					130				135					140		
275	Asp	Phe	Asp	Ala	Thr	Asn	Gly	Leu	Lys	Pro	Ala	Asp	Arg	Tyr	Ala	Pro
276	145				150				155					160		
279	Arg	Ile	Thr	Ser	Leu	Val	Arg	Gln	Ile	Ala	Ala	Gln	Ser	Ala	Lys	Ala
280					165				170					175		
283	Gly	Ile	Arg	Met	Leu	Leu	Leu	Ala	Gln	Arg	Ala	Glu	Ala	Ser	Ile	Val
284					180				185					190		
287	Gly	Gly	Asn	Ala	Arg	Ser	Asn	Phe	Ala	Val	Lys	Met	Thr	Leu	Arg	Val
288					195				200					205		
291	Asp	Glu	Pro	Glu	Ser	Val	Lys	Met	Leu	His	Pro	Asn	Ala	Thr	Pro	Glu
292					210				215					220		
295	Glu	Cys	Ala	Leu	Val	Glu	Gly	Phe	Val	Pro	Gly	Gln	Gly	Phe	Phe	Asp
296	225				230				235					240		
299	Gln	Pro	Gly	Leu	Arg	Arg	Gln	Met	Ile	Arg	Thr	Val	Arg	Val	Gly	Glu

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/007,452

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Output Set: N:\CRF3\12202001\J007452.raw

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311	Tyr Pro His Leu Gly Asp Ile Gly		
312	290	295	
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321	<213> ORGANISM: Rhodococcus AN12		
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328	aagcttgc atgcgtccgc gctcttacga gcagggtgcgg agacggccgc tgcaggcatt	120	
330	ggAACCAAT tctccactgt gatggatagt gcgagacgt ccatgccagt catgttagggc	180	
332	tgcacccaga caaggccttc tgctcggtag atcgtgccga agctgaacgg ctcgttcggc	240	
334	gggttgcata cgtgcacgga tgctgtcttg tcagtcgcaa cagttccgtc cttgcgtgca	300	
336	actcggagca atgcgccagt cgaatacttc acacggccgt cgggagtgag cttgtcctga	360	
338	accggcttga tggggtcgtc catabcggt acgaacaccc ggaactgatc aegggtagtt	420	
340	gcgacgggaa gggacgttcc gagctgaaca ttcatgcgag ttcccttgcgat cgaggctgg	480	
342	acagcttatg tctccgggtt ccataattcag cgacacgcgt tcatctacac tcaaaaaccgt	540	
344	acacatagtg tagccagctg tccagtttc gcacactacg ttagcaactg aacatatttt	600	
346	gtggttgatc agtcaataag ctgtccatat ggacgagaaa gaggttgcgc cgatgattca	660	
348	gcgaaagaaa accgaacgaa aatatgcaggt catcaagcag gcgtccgtgg atctgtcaca	720	
350	ctcctggcag accattcaga acgcgcacga ctccacgact gtcgcaatgg agtacgaga	780	
352	agccgggctt caacgcgaat tctggctaca agctctcgcg gacatcacat ctgtgtggg	840	
354	aactgcctct gagctgcgca aatctatttc ccgttttctc gttgacgagc ttgacgtcag	900	
356	cagccgaacc gttgccaccg ttgcagatgt ttccaccgtcg accatcaga cttggcgtgg	960	
358	tgagcatgag tcatcgtaaa aacatcctct gacctgtat ggccccatg atcacctatt	1020	
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362	gctcgcgtt cgggtgcctc cccgcaggcc caggagcgg tttgcgcctc gtttagtcca	1140	
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366	gaacgcacca tctcgatcca gctgggtttc ttgaccataa atcgagaggt acacgccccat	1260	
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370	gatgctcatg tgatgggttt acctgcaaaa atagtcgca gccaaatcgg aggccggcggc	1380	
372	ttcgcgcggc ctgcacgcac gctccccccac ctacgcgtc cgcttcgcgc gcgcttcgg	1440	
374	gctccgcggc caggcccagg agcgagttt cgcctcgatc agtccatcta aggggttcct	1500	
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378	gatccagcgt gttttcttgc ccataaatcg agaggtacac gcccattgaca acgcacatcga	1620	
380	cgtctaccga agctggattc gtcgcgttc caagaggacg ttctgtatc ctcattgtat	1680	
382	gggttacact gaaaaatag tcagcggcca aatcgccgg ctttttcta tctggccgg	1740	
384	cagccccccg agaccaacca taaaacaggc cgtctctcg tcaaggccaa gcccgtacgc	1800	
386	gggtctatcg cagccctgac agagagacac ccagcttcg agcggcaagt atcgggggg	1860	
388	tgcctcaag tgggttcat gccccggaaa gttgttgcgc agcaacgtt ttcaattgcg	1920	
390	aaccgatatt atcgggggcc gacatccgc tggggcaat cgataatgcg agtgcac	1980	
392	aagattttcc caagtcgcgc cagttcgac gagtccgagg atctgcgcg agacgttaagg	2040	
394	cgcacaagtc cgaatcatca tccacgatcg cgcggaaatg atcgcacca tgaccggggc	2100	
396	agattttcc tgctcaacga tctgagcatc tggtagttct gccccaaagac cagtcgggc	2160	
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/007,452

DATE: 12/20/2001  
TIME: 14:00:34

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Output Set: N:\CRF3\12202001\J007452.raw

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404	tgcaattttc gtcagatacg cagcgagaac ttgatcagct tcaccgcccga tcttcgtac	2400
406	atcgagacca cccgaattac gtagtggcgc agcaaattcc agagatacga gtttggaaagt	2460
408	ccaccgatcg aacatcgcat ccgagaagga ttcgaggatg ttctcaactca cgtcaccact	2520
410	gaacatgagt agcgcgtgaa cgtggacgtg ccagccgtt tttccgtgag tgatttcaac	2580
412	agcgcgcacg tatccgtcgc agccgtacat ttacgttcc gtacgccaac gacgaccgtt	2640
414	ggtcgcagct ttccaggctg ccgaaagtcc agtccatagg tcgtggagcc gctgaccago	2700
416	tgtatggcgc atggtcatcg tcaccatcgc aacagatcca gtcccgagtt gatgagcaac	2760
418	aacttgagaa atttcgtctg cacgatgtgc accgactttt cccgcacagc agggggcagat	2820
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422	ggtcacaccc ttacgcgcag aaatcgcccg gccacaggcg ttaaatgttt ctgacgtgg	2940
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426	gacggggaggc cggctttgc cggaaagggt ttcagactt acgctggtca taacgagcgg	3060
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430	cgctcgatt ttccggatcaa atccagctag ttcaagctcg atactccact tcgaggttca	3180
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434	gtcagtgcgg cgtgtcgccc gagtcgctag tccgcggcga gtccccatgc ttccgagaaca	3300
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492	agtgggatcg actccgcacga cacgcacagc gggattcgat ccagccgtg cgagcagggtt	5040
494	gtaggtgcgt tgagattttc cggaaacgggt tttgcgttgc atgagccagt gacgcacatc	5100
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**VERIFICATION SUMMARY**

**PATENT APPLICATION: US/10/007,452**

**DATE: 12/20/2001**

**TIME: 14:00:35**

**Input Set : A:\CL1709 US NA Seq Listing.txt**

**Output Set: N:\CRF3\12202001\J007452.raw**

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L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date